Claims

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- Claim 1: Amorphous silica particles, wherein an oil absorption measured by JISK 6217-4 (a carbon black for rubber basic characteristics) is more than 400 ml/100g, the maximum value of ΔVp/ΔlogRp (where Vp is the pore volume [mm³/g] and Rp is the pore radius [nm]) is 250 mm³/nm·g or more in the pore distribution curve obtained by the nitrogen adsorption isotherm method, and pore peak radius when the ΔVp/ΔlogRp value is maximum is 3 nm or more.
 - Claim 2: The amorphous silica particles according to Claim 1, wherein the maximum value of ΔVp/ΔlogRp (where Vp is the pore volume [mm³/g] and Rp is the pore radius [nm]) is 500 mm³/nm·g or more in the pore distribution curve obtained by the nitrogen adsorption isotherm method, and the pore peak radius when the ΔVp/ΔlogRp value is maximum is 10 nm or more.
- Claim 3: The amorphous silica particles according to Claim 2, wherein the maximum value of ΔVp/ΔlogRp (where Vp is the pore volume [mm³/g] and Rp is the pore radius [nm]) is 1000 mm³/nm·g or more in the pore distribution curve obtained by the nitrogen adsorption isotherm method, and the pore peak radius when the ΔVp/ΔlogRp value is maximum is 15 nm or more.
 - Claim 4: The amorphous silica particles according to any one of Claims 1 to 3, wherein the average particle size is 0.5 to 40 μm .
- Claim 5: The amorphous silica particles according to any one of Claims 1 to 4, wherein the bulk density is 20 to 200 g/l.
 - Claim 6: The amorphous silica particles according to any one of Claim 1 to

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- 5, obtained by baking.
- Claim 7: A process for preparing amorphous silica, wherein the silica particles are baked at 200 990°C.

Claim 8: Process as Claimed in claim 7, wherein at least one amorphous silica having the oil absorption of at least 340 ml/100 g is baked at 200 - 990°C.

- 10 Claim 9: Process as claimed in Claim 7 or 8, wherein the time for baking is 10 minutes to 5 hours.
- Claim 10: Process as claimed in Claims 8 to 9, wherein the resulting amorphous silica exhibits an oil absorption of more than 400 ml/100 g.
 - Claim 11: Process as claimed in any one of Claims 7 to 10, comprising the step of reacting at least one alkali metal silicate with at least one mineral acid.
 - Claim12: Process as claimed in any of Claims 7 to 11, comprising the step of adjusting the pH value of the final silica to 3 to 10 either before or after the drying of the silica slurry.
- 25 Claim 13: Use of a silica as claimed in any of Claims 1 to 6 as matting agent or as carrier for pharmaceuticals or agrochemicals or reinforcing agent for various rubbers.
- Claim 14: An adsorbent for pharmaceuticals, agrochemicals, comprising the amorphous silica particles according to any one of Claims 1 to 6.
 - Claim 15: A matting agent, comprising the amorphous silica particles according to any one of Claim 1 to 6.